

ABSTRACT

The present invention provides a method for producing a xanthophyll from a photosynthetic microalga, which includes inoculating
5 a photosynthetic microalga containing a xanthophyll, preferably an encysted microalga, into a nutrient medium to grow the microalga; and encysting the grown microalga, by a single-step culture method in which the growth step and the encystment step are performed continuously using a nutrient medium having a low nitrogen source concentration, or
10 by a two-step culture method in which the microalga is grown in a nutrient medium having a high nitrogen source concentration and then transferred to an encystment medium.